## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 06/27/2005
PATENT APPLICATION: US/10/539,402 TIME: 11:14:00

Input Set : A:\P10138-SEQ.txt

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3 <110> APPLICANT: Xerion Pharmaceuticals AG
             Tufts University
      6 <120> TITLE OF INVENTION: Neuropilin-1 Inhibitor
      8 <130> FILE REFERENCE: XE12EPC
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/539,402
C--> 11 <141> CURRENT FILING DATE: 2005-06-17
     13 <150> PRIOR APPLICATION NUMBER: US 60/435,893
     14 <151> PRIOR FILING DATE: 2002-12-20
    16 <150> PRIOR APPLICATION NUMBER: EP 03000615
    17 <151> PRIOR FILING DATE: 2003-01-15
    19 <160> NUMBER OF SEQ ID NOS: 108
    21 <170> SOFTWARE: PatentIn version 3.1
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    26 <213> ORGANISM: mouse
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    38 Asp Ile Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile
    42 Gly Trp Ile Tyr Pro Gly Asp Gly Ser Thr Lys Tyr Asn Glu Lys Phe
    46 Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Thr Thr Val Tyr
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                                                75
    50 Met Gln Leu Ser Ser Leu Thr Ser Glu Asn Ser Ala Val Tyr Phe Cys
                       85
                                            90
    54 Ala Arg Gly Gly Lys Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu
                                        105
    58 Thr Val Ser Thr Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly
                                   120
    62 Gly Gly Ser Ala Leu Asp Ile Val Met Thr Gln Ser Pro Lys Phe Met
                               135
    66 Ser Thr Ser Val Gly Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln
                                               155
    70 Asn Val Ala Thr Asn Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser
                       165
                                            170
    74 Pro Lys Pro Leu Thr Tyr Ser Ala Ser Phe Arg Ser Ser Gly Val Pro
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    78 Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
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               195
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Input Set : A:\P10138-SEQ.txt

Output Set: N:\CRF4\06272005\J539402.raw

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Input Set : A:\P10138-SEQ.txt

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185 tcctgcaagg cctcgggata caccgtcaca agctacgata taaactgggt gaagcagagg
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187 cctggacagg gacttgagtg gattggatgg atttatcctg gagatggtag tactaagtac
                                                                          180
189 aatgagaaat tcaagggcaa ggccacactg actgtagaca aatcctccac cacagtctac
                                                                          240
191 atgcagetea geageetgae ttetgagaae tetgeagtet atttetgtge aagaggtggt
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193 aaatactttg actactgggg ccaaggcacc actctcacag tgtcgacagg tggaggcggt
                                                                          360
195 tcaggcggag gtggctctgg cggtggcgga agtgcactcg acattgtgat gacacagtct
                                                                          420
197 ccaaaattca tgtccacatc agtaggagac agggtcagcg tcacctgcaa ggccagtcag
                                                                          480
199 aatgtggcta ctaatgtagc ctggtatcaa cagaaaccag ggcaatctcc taaaccactg
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201 acttactegg cateetteeg gteeagtgga gteeetgate getteacagg cagtggatet
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203 gggacagatt tcactctcac catcagcaat gtgcagtctg aagacttggc agagtatttc
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205 tgtcagcaat ataacagcta tccgtacacg ttcggagggg ggaccaagct ggaaataaaa
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207 geggeegeag gtgegeeggt geegtateea gateegetgg aacegegtgg ggeegeaage
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222 ccagggaagg ggctggagtg ggtctcagct attagtggta gtggtggtag cacatactac
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224 gcagactccg tgaagggccg gttcaccatc tccagagaca attccaaqaa cacqctqtat
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226 ctgcaaatga acagcctgag agccgaggac acggccgtgt attactgtgc gcgagactcg
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228 gggctacagc agggaccccg ccgaagaggg gcccgagtaa atttctccta ctacggtctg
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230 gacgtctggg ggcgggggac cacggtcacc gtctcgagtg gaggcggcgg ttcaggcgga
                                                                          420
232 ggtggctctg gcggtggcgg aagtgcacag gctgtgctga ctcagccgtc ctcagcgtct
                                                                          480
234 gggacccccg ggcagagggt caccatctct tgttctggaa gcaactccaa catcggacgc
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236 aattatgtat tetggtacea geagtteeea ggaaeggeee eeaaaateet eatetaeagg
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238 aacaatcagc ggccctcagg ggtccctgac cgattctctg gctccaagtc tggcacatca
                                                                          660
240 gcctccctgg ccatcagtgg gctccggtcc gaggatgagg ctgattatta ctgtgcatca
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242 tgggatgaca gcctgacttg ggtgttcggc ggagggacca aggtcaccgt cctaggtgcg
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244 gccgcaggtg cgccggtgcc gtatccagat ccgctggaac cgcgtggggc cgcaagcgct
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250 <211> LENGTH: 246
251 <212> TYPE: PRT
252 <213> ORGANISM: human
254 <400> SEQUENCE: 5
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260 Tyr Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp
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Input Set : A:\P10138-SEQ.txt

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268	Phe	Gln	Glv	Ara	Val	Thr	Val		Arg	Asp	Thr	Ser	-	Ser	Thr	Δla
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272	His	Met	Glu	Leu	Ser	Ara		Ser	Ser	Asp	Asp		Δla	Val	Tur	Tyr
273						70				- 1 <u>F</u>	75				-1-	80
		Ala	Ara	Glu	Ara	_	۷al	Pro	Ala	Glv	. –	Ara	Asn	Ara	Glv	
277	-1-		5		85					90		5		**** 9	95	1100
	Val	Thr	Ala	Val		Met	Asp	Val	Trp		Ara	Glv	Thr	T.em		Thr
281				100	1		<u>-</u>		105	<b>-</b> 1	3	<b>-</b> 1		110	• • • •	
	Val	Ser	Ser		Glv	Glv	Glv	Ser		Glv	Glv	Glv	Ser		Gl v	Gly
285			115	0-1	0-1	<b>-</b> -1		120	017	017	017	OT I	125	OLY	OLY	GLY
	Glv	Ser		Gln	Ser	Val	Val		Gln	Pro	Pro	Ser	-	Ser	Glv	Thr
289	1	130					135		01			140		DCI	O <sub>L</sub> y	1111
	Pro		Gln	Ara	Val	Thr		Ser	Cys	Ser	Glv		Ara	Ser	Δen	Tle
	145	1		5		150			0,0		155	001	9	501	7,011	160
		Ara	Asn	Tvr	Val		Trn	Tur	Gln	Gln		Pro	Gl v	Thr	<b>Δ</b> Ι =	
297	<b>0-</b> 1			-1-	165	-1-		-7-	0111	170	1110	110	GLY	1111	175	FIO
	Lvs	Leu	Len	Tle		Ara	Asn	Δsn	Glu		Pro	Ser	Glv	บลไ		Acn
301	-1-			180	-1-	9			185			DCI	017	190	110	nsp
	Ara	Phe	Ser		Ser	Lvs.	Ser	Glv	Thr	Ser	Δla	Ser	T.011		т1Д	Sor
305	3		195			-1-	502	200		001		DCI	205	niu	110	DCI
	Glv	Leu		Ser	Glu	Asp	Glu		Asp	Tvr	Tur	Cvs		Thr	Trn	Δen
309	2	210	5				215		1155	-1-	-1-	220	1114		112	пор
	asp		Leu	Ser	Glv	Thr		Val	Phe	Glv	Glv		Thr	Lvs	T.e11	Thr
	225				2	230				<b>U</b> -1	235	0-1		_,		240
	Val	Leu	Glv	Ala	Ala						233					240
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316 317 320 321 322 323 325 327 328 331 332 335 336 340 343 347 348 351 352 355 356	<210<211<211<2400	O> SI 1> LI 2> TY 3> OB O> SI Leu Ser Val Gly 50 Thr Ser Gly Met	EQ III ENGTH YPE: RGANI EQUEN Glu Cys Arg 35 Ser Ile Leu Arg Val	PRT ISM: NCE: Ser Ala 20 Gln Gly Ser Arg Tyr 100 Thr	245 : 6 18 huma 6 Gly 5 Ala Ala Gly Arg Ala 85 Asp	Ala  Gly  Ser  Pro  Ser  Asp 70  Glu  Ser  Ser	Gly Thr 55 Asn Asp Ser Ser	Phe Lys 40 Tyr Ser Thr His Gly 120	Thr 25 Gly Tyr Lys Ala Gly 105 Gly	10 Phe Leu Ala Asn Val 90 Phe Gly	Pro Ser Glu Asp Thr 75 Tyr Asp	Ser Trp Ser 60 Leu Tyr Ser Ser	Tyr Val 45 Val Tyr Cys Trp Gly 125	Ala 30 Ser Lys Leu Ala Gly 110 Gly	15 Met Ala Gly Gln Arg 95 Arg	Arg Ser Ile Arg Met 80 Gly

Input Set : A:\P10138-SEQ.txt

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	Gln	Ala	Pro	Thr		Val	Ile	Tyr	Tvr		Ser	Val	Ara	Pro		Glv
372				180				-1-	185				5	190		0_1
	Val	Pro	Glu	Ara	Phe	Ser	Ala	Ser		Ser	Ara	Leu	Ser		Thr	Leu
376			195					200			5		205			
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402	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met
403	_			20				_	25					30		
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407			35					40	_	_			45			
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411		50					55					60			_	_
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415						70					75					80
418	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg
419					85					90					95	
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	145															160
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439		_	_	_	165					170					175	
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443	_			180	_			_	185		_			190		
	Ser	Gly		Pro	Asp	Arg	Phe	Thr	Gly	Ser	Gly	Ser		Thr	Asp	Phe
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	Ser		Thr	Ile	Thr	Lys		Glu	Pro	Glu	Asp		Ala	Val	Tyr	Tyr
451		210	_	_			215	_				220				
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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/539,402

DATE: 06/27/2005 TIME: 11:14:01

Input Set : A:\P10138-SEQ.txt

Output Set: N:\CRF4\06272005\J539402.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date